

IN THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims in the application. Amend claims 1 through 6, and add claims 7 through 18, as follows:

1 1. (Currently Amended) A helical implant formed with threads thereon, ~~wherein~~
2 with each of the threads ~~has~~ having thread inclines comprising one or more recesses.

3 2. (Currently Amended) The helical implant as set forth in claim 1, ~~wherein~~ with
4 the recesses ~~have~~ having a polygonal cross-section opened at one side thereof.

1 3. (Currently Amended) A helical implant ~~formed with threads thereon~~ as set forth
2 in claim 1, ~~wherein~~ with each of the threads ~~has~~ having thread inclines comprising one or
3 more recesses and protrusions.

1 4. (Currently Amended) The helical implant as set forth in claim 3, ~~wherein~~ with
2 both the recesses and protrusions ~~have~~ having an arcuate cross section of identical
3 curvature and length.

1 5. (Currently Amended) The helical implant as set forth in claim 2, ~~wherein~~ in
2 which a distance between two adjacent said ~~the recesses have a cross sectional area of is~~

150 μm .

6. (Currently Amended) The helical implant as set forth in claim 4, ~~wherein~~ in which the distance between two adjacent the recesses ~~have a cross sectional area is~~ of 150 μm .

7. (New) A helical implant, comprising a core surrounded by helical threads, and inclined flanks of said threads bearing continuous micro-patterns increasing exposed surface area of said implant.

8. (New) The helical implant of claim 7, comprised of the micro-patterns having a polygonal cross-section opened at one side thereof.

9. (New) A helical implant of claim 7, comprised of the micro-patterns comprising one or more recesses and protrusions.

10. (New) The helical implant as set forth in claim 7, comprised of the micro-patterns comprising one or more recesses and protrusions with both the recesses and protrusions having an arcuate cross section of identical curvature and length.

11. (New) The helical implant as set forth in claim 7, comprised of the micro-

patterns comprising one or more recesses and protrusions with two adjacent recesses being separated by a distance on an order of 150 μm .

12. (New) The helical implant of in claim 7, comprised of said micro-patterns having cross-sectional areas on an order of 150 μm .

13. (New) A helical implant, comprising a core surrounded by helical threads bearing inclined flanks incised with continuous micro-patterns increasing exposed surface area of said implant by extending along said flanks and around said core.

14. (New) The helical implant as set forth in claim 13, comprised of the micro-patterns having a polygonal cross-section opened at one side thereof.

15. (New) A helical implant of claim 13, comprised of the micro-patterns comprising one or more recesses and protrusions.

16. (New) The helical implant as set forth in claim 13, comprised of the micro-patterns comprising one or more recesses and protrusions with both the recesses and protrusions having an arcuate cross section of identical curvature and length.

17. (New) The helical implant as set forth in claim 13, comprised of the micro-

2 patterns comprising one or more recesses and protrusions with two adjacent recesses
3 being separated by a distance on an order of 150 μm .

1 18. (New) The helical implant of in claim 13, comprised of said micro-patterns
2 having cross-sectional areas on an order of 150 μm .